Importer: Corroconsult GmbH, Elstorfer Ring 70, D-21149 Hamburg, office@corroconsult.de

Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II, Amended by COMMISSION REGULATION (EU) 2020/878, Amended by COMMISSION DELEGATED REGULATION (EU) 2023/707, According to REGULATION (EC) No 1272/2008

Website: www.sd-grand.com

Photoluminescent pigment

Version 1.0

Issue date: 2024/6/10 Revision date: 2024/6/10

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label: NL-Pigments to luminescent paint, Article numbers: **57850**, **57852**, **57835**, **57849**, Distribution by:

Kroschke sign-international GmbH, Kroschkestr. 1, 38112 Braunschweig, vertrieb@kroschke.com

Additional identification: Nanoform is NOT covered by this SDS. Identification of the product: CAS#12004-37-4 EC#234-455-3

Index Number: Not available.

REACH registration No.: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against:

1.2.1 Identified uses:

Use for manufacturing photoluminescent sign, injection molding, silk printing etc.

1.2.2 Uses advised against:

No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet:

Supplier (Importer): Corroconsult GmbH, Elstorfer Ring 70, D-21149 Hamburg, office@corroconsult.de

Supplier(Manufacturer): Dezhou Grand Luminous Technology Co.,Ltd. Address: Shizhong district, Yucheng, Dezhou, China

Contact person(E-mail): sales@sd-grand.com Telephone: +86-534-7367616 Fax: +86-534-7367616

1.4 Emergency telephone Number:

+86-534-7367616 Only available during office hours (9:00a.m.-17:30p.m.)

Available outside office hours? YES NO

Section 2 Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification of the substance:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008			
Hazard classes/Hazard categories	Hazard statement		
Skin Irrit. 2	H315		
Eye Irrit. 2	H319		
STOT SE 3	H335		

For full text of H- phrases: see section 2.2.

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2.2 Label elements:



Hazard pictogram(s): Signal word: Warning

Hazard statement(s): H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary statement(s):

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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P302 + P352: IF ON SKIN: Wash with plenty of water/...

P304 + P340: IF INHALED: remove person to fresh air and keep comfortable

for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER/doctor/... if you feel unwell.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P403 + P233: Store in a well-ventilated place. keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations.

Supplemental Hazard information (EU) Not applicable.

2.3 Other hazards:

The substance is not PBT / vPvB.

The substance is not identified as having endocrine disrupting properties.

Section 3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical name		Registr	Cas No.	EC No.	Concent	Specific Concentration
		ation			ration	limits, M-Factors, Acute
		No.				Toxicity Estimates (ATE)
	Sr:46.3%					
strontium	Al:46.67%					
aluminate	0:6.1%	N/A	12004-37-4	234-455-3	>99.9%	N/A
	Eu:0.51%					
	Dy:0.42%					

Section 4 First aid measures

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4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove from exposure, taking care to avoid inhaling vapours. Keep warm rest. Obtain medical attention if symptoms appear.

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4.1.2 In case of skin contact:

Wash skin with water. Obtain medical attention if soreness or redness persists.

4.1.3 In case of eyes contact:

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Remove contact lenses if possible. Obtain medical attention.

4.1.4 In case of ingestion:

Do not induce vomiting. Obtain medical attention if symptoms appear or if large quantities have been ingested. Accidental ingestion at a level high enough to be dangerous to health is unlikely.

4.2 Most important symptoms and effects, both acute and delayed:

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Use water spray, dry powder, foam or carbon dioxide

extinguishing agents to extinguish fires.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising

from the substance or mixture In case of fire, the following can be released:

Strontium oxide, aluminum oxide.

5.3 Advice for firefighters: Self-contained breathing apparatus

with full-face mask and full protective clothing (standard wear).

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Eliminate all sources of ignition. Wear appropriate protective clothing. Avoid breathing vapours. Keep unnecessary people away; isolate hazard area and deny entry. Consider need for evacuation. Stay up wind and keep out of low areas where vapour may accumulate and ignite.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental precautions:

Try to prevent the material from entering drains or water courses. Advice Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

6.3 Methods and material for containment and cleaning up:

Sweep and shovel away. Place in a suitable closed container for disposal.

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6.4 Reference to other sections:

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Store in tightly closed containers in cool, dry, isolated, well-ventilated area. Avoid inhaling dust. Avoid contact with eyes, skin and clothing. Suitable equipment for dealing with fires, spills and leaks must be readily available. Earth all equipment. Use explosion protected electrical equipment and lighting. Do not smoke eat or drink in areas of use and storage. Use closed-system transfers wherever possible. Earth (ground) lines and equipment used during transfer to reduce possibility of static spark initiated fire or explosion

7.1.2 Advice on general occupationalhygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Storage area should be cool, dry, well ventilated, out of direct sunlight. Store in original containers. Store away from sources of heat or ignition. Storage tanks should have equipotential electrical bonding and be earthed. Storage should be closed.

7.3 Specific end use(s): Not applicable.

Section 8 Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under

the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Handle in accordance with good industrial hygiene

and safety practice. Wash hands before breaks and

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at the end of workday.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety goggles.

Skin protection:

Hand protection: Handle with gloves.

Body protection: Standard work wear and safety boots for normal handling and use.

Respiratory protection: Wear approved mask/respirator.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. According to

local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state: Powder

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Colour: Yellowish
Odour: Weak odor
Odour threshold: Not available
PH: Not available
Melting point/freezing point (°C): Not available

Boiling point or initial boiling

point and boiling range (°C): Not available Flash point (°C): Not available Not available **Evaporation rate:** Flammability limit - lower (%): Not available Flammability (gas, liquid, solid): Not applicable Ignition temperature (°C): Not available Lower and upper explosion limit: Not available Vapour pressure (20°C): Not available Relative vapour density: Not available

Relative Density (g/cm3):

Bulk density (kg/m3):

Not available

Solubility in water (g/l, 20°C):

Not available

Solubility in other polar and non-polar

solvents (g/I, 20°C): Not available

Partition coefficient n-octanol/water

Not available (log Po/w, 20°C): **Auto-ignition temperature:** Not available **Decomposition temperature:** Not available Kinematic viscosity (mm²/s): Not available **Particle characteristics:** Not applicable **Explosive properties:** Not available **Oxidising properties:** Not available Molecular Formula: SrMgAl4O8:Eu2+Dy3+ **Molecular Weight:** Not available

9.2. Other information:

Fat solubility(solvent-oil to be specified) etc: Not available
Surface tension: Not available
Dissociation constant in water(pKa): Not available
Oxidation-reduction Potential: Not available

Section 10 Stability and Reactivity

10.1 Reactivity: The substance is stable under normal storage and handling conditions.10.2 Chemical stability: Stable at room temperature in closed containers under normal storage

and handling conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: Incompatible materials. High temperatures.

Proximity to sources of ignition.

10.5 Incompatible materials: Not available.

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10.6 Hazardous decomposition products: Strontium oxide, aluminum oxide.

Section 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:

LD50(Oral, Rat):Not availableLD50(Dermal, Rabbit):Not availableLC50(Inhalation, Rat):Not available

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization:

Germ cell mutagenicity:

Carcinogenicity:

Not classified

Not classified

Not classified

Not classified

STOT- single exposure: May cause respiratory irritation.

STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

11.2 Information on other hazards

Endocrine disrupting propertiesThe substance is not identified as having endocrine

disrupting properties.

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Other information: Not applicable

Section 12 Ecological information

12.1 Toxicity:

Acute (short-term) toxicity:

LC50(96h, Fish):Not availableLC50(48h, Crustacea):Not availableEC50(72h, Algae/aquatic plants):Not available

Chronic (long-term) toxicity:

NOEC(Fish):
NOEC(Crustacea):
Not available
Not available
EC50(Algae/aquatic plants):
Not available
12.2 Persistence and degradability:
Not available
12.3 Bioaccumulative potential:
Not available
Not available

12.5 Results of PBT and vPvB assessment: The substance is not PBT / vPvB.

12.6 Endocrine disrupting properties: The substance is not identified as having endocrine

disrupting properties.

12.7 Other adverse effects: Not available.12.8 Additional information Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: Dispose of in accordance with all applicable local and

national regulations. Use recovery/recycling where feasible, therwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container

be not eat, panetare or well on or near to the container

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abels should not be removedfrom containers until they have been cleaned. Contaminated containers mustnot be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incinerationas appropriate. Do not incinerate closed containers.

Section 14 Transport Information

	Land transport	Inland waterways	Sea transport	Air transport	
	(ADR/RID)	(ADN)	(IMDG)	(ICAO/IATA)	
14. 1 UN number or	Not regulated	Not regulated	Not regulated	Not regulated	
ID number					
14.2 UN proper	Not regulated	Not regulated	Not regulated	Not regulated	
shipping name					
14.3 Transport	Not regulated	Not regulated	Not regulated	Not regulated	
hazard class(es)					
14.4 Packing group	Not regulated	Not regulated	Not regulated	Not regulated	
14.5 Environmental	ironmental No		No	No	
hazards					
14.6 Special	See section 2.2	See section 2.2	See section 2.2	See section 2.2	
precautions for user					
14.7 Maritime	Not regulated	Not regulated	Not regulated	Not regulated	
transport in bulk					
according to IMO					
instruments					

Section 15 Regulatory information	n					
15.1 Safety, health and enviror	mental regu	ulations/legis	lation speci	fic for th	e subs	tance or
mixture:						
Relevant information regarding a	uthorization	: Not app	olicable.			
Relevant information regarding restriction:		Not ap	Not applicable.			
Other EU regulations:	Employment	restrictions	concerning	young p	erson	must be
ol	oserved. For	use only by te	echnically qu	alified ind	lividual	S.
Other National regulations:		Not appli	icable			
15.2 Chemical Safety Assessment	YES	NO	Х			
Section 16 Other information						

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2020/878, (EU) 2023/707

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

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ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC)1272/2008 [CLP]

Classification according to Regi	Classification procedure	
Skin Irrit. 2	H315	On basis of test data
Eye Irrit. 2	H319	On basis of test data
STOT SE 3	H335	On basis of test data

16.5 Relevant H-statements (number and full text):

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

16.6 Training instructions: Not applicable.

16.7 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.8 Authors and providers of documents and information:

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Authorized signature(s)

DEZHOU GRAND LUMINOUS TECHNOLOGY CO LTD

For and on behalf of

Website: www.sd-grand.com

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